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PTO/SB/08A (08-00) - MODIFIED
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Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Substitute for form 1449A/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)				Application Number	10/079,061
				Filing Date	2/20/02
				First Name of Inventor	Steven Teig
				Group Art Unit	2825
				Examiner Name	DA
Sheet	1	of	1	Attorney Docket Number	SPLX.P0126

U.S. PATENTS RELATED TO THE PRESENT APPLICATIONS						
Examiner Initials	Cite No.	U.S. Patent Document Number	Kind Code (if known)	Name of Patentee or Applicant of Cited Document	Date of Publication MM-DD-YYYY	Relation to Present Application
	1.	6,516,455	B1	Teig, et al.	02-04-03	CIP of parent application
U.S. PATENT DOCUMENTS						
Examiner Initials	Cite No.	U.S. Patent Document Number	Kind Code (if known)	Name of Patentee or Applicant of Cited Document	Date of Publication MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
TD	2.	2001/0003843	A1	Scepanovic et al.	06-14-01	
	3.	4,615,011		Linsker	09-30-86	
	4.	5,097,422		Corbin, II et al.	03-17-92	
	5.	5,532,934		Rostoker	07-12-96	
	6.	5,566,078		Ding et al.	10-15-96	
	7.	5,578,840		Scepanovic et al.	11-26-96	
	8.	5,634,093		Ashida et al.	05-27-97	
	9.	5,636,125		Rostoker et al.	06-03-97	
	10.	5,650,653		Rostoker et al.	07-22-97	
	11.	5,742,086		Rostoker et al.	04-21-98	
	12.	5,757,656		Hershberger et al.	05-26-98	
	13.	5,777,360		Rostoker et al.	07-07-98	
	14.	5,811,863		Rostoker et al.	09-22-98	
	15.	5,822,214		Rostoker et al.	10-13-98	
	16.	5,859,449		Kobayashi et al.	01-12-99	
	17.	5,898,597		Scepanovic et al.	04-27-99	
	18.	5,914,887		Scepanovic et al.	06-22-99	
	19.	5,973,376		Rostoker et al.	10-26-99	
	20.	6,035,108		Kikuchi	03-07-00	
	21.	6,058,254		Scepanovic et al.	05-02-00	
TD	22.	6,068,662		Scepanovic et al.	05-30-00	

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¹ Unique citation designation number. ² See attached Kinds of U.S. Patent Documents. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

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U.S. PATENTS RELATED TO THE PRESENT APPLICATIONS						
TD	23.	6,123,736		Pavisic et al.	09-26-00	
	24.	6,134,702		Scepanovic et al.	10-17-00	
	25.	6,155,725		Scepanovic et al.	12-05-00	
	26.	6,175,950		Scepanovic et al.	01-16-01	
	27.	6,216,252	B1	Dangelo et al.	04-10-01	
	28.	6,230,306	B1	Raspopovic et al.	05-08-01	
	29.	6,247,167	B1	Raspopovic et al.	06-12-01	
	30.	6,249,902	B1	Igusa et al.	06-19-01	
	31.	6,260,179	B1	Ohsawa et al.	07-10-01	
	32.	6,262,487	B1	Igarashi et al.	07-17-01	
	33.	6,289,495	B1	Raspopovic et al.	09-11-01	
	34.	6,301,686	B1	Kikuchi et al.	10-09-01	
	35.	6,385,758	B1	Kikuchi et al.	05-07-02	
	36.	6,401,234	B1	Alpert et al.	06-04-02	
	37.	6,405,358	B1	Nuber	06-11-02	
	38.	6,412,097	B1	Kikuchi et al.	06-25-02	
	39.	6,436,804	B2	Igarashi et al.	08-20-02	
TD	40.	6,463,575	B1	Takahashi	10-08-02	

FOREIGN PATENT DOCUMENTS								
Examiner* Initials	Cite No. ¹	Foreign Patent Document			Name of Patentee or Applicant of Cited Document	Date of Publication MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ²
		Office ³	Number ⁴	Kind Code (if known) ⁵				
TD	41.	JP	64-15947		Ouchi	01-19-89		

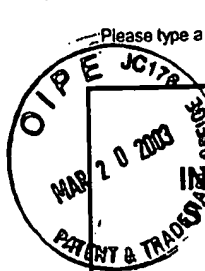
NON PATENT LITERATURE DOCUMENTS					
Examiner* Initials	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.			T ²

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NON PATENT LITERATURE DOCUMENTS		
TD	42.	A.H. Farrahi et al., Quality of EDA CAD Tools: Definitions, Metrics and Directions, Quality Electronic Design, 2000, Proceedings of the first International Symposium on March 2000, pp 395-405.
TD	43.	C. Chiang, et al., Wirability of Knock-Knee Layouts with 45° Wires, IEEE Transactions on Circuits and Systems, Vol. 38, Issue 6, pp 613-624, June 1991.
TD	44.	J. Su et al., Post-Route Optimization for Improved Yield Using Rubber-Band Wiring Model, 1997 International Conference on Computer-Aided Design, pp 700-706, November 1997.
TP	45.	J. Vicente, RSR: A New Rectilinear Steiner Minimum Tree Approximation for FPGA Placement and Global Routing, Proceedings of the 24 th Euro Micro Conference, pp 192-195, August 1998.
TD	46.	K. Powers et al., The 60° Grid: Routing Channels in Width d/square root 3, VLSI, 1991, Proceedings., First Great Lakes Symposium on Kalamazoo, MI, USA, pp 214-291, March 1991.
TD	47.	M. Alexander et al., Performance-Oriented Placement and Routing for field-programmable gate arrays, Proceedings of the European Design Automation Conference, pages 80-85, 1995.
TD	48.	M. Alexander et al., Placement and Routing for Performance-Oriented FPGA Layout, VLSI Design, Vol. 7, No. 1, 1998.
TD	49.	M. Igarashi et al., A Diagonal-Interconnect Architecture and Its Application to RISC Core Design, 2002 IEEE Solid-State Circuits Conference, pp 210-460, February 2002.
TD	50.	P. Dood, et al. A Two-Dimensional Topological Compactor with Octagonal Geometry, 28 th ACM/IEEE Design Automation Conference, pp 727-731, July 1991.
TD	51.	P. Parikh, et al., Congestion Driven Quadratic Placement, Proceedings of Design Automation Conference, 1998, pp 275-278.
TD	52.	R. Putatunda et al., VITAL: Fully Automatic Placement Strategies for Very Large Semicustom Designs, Proceedings of the International Conference on Computer Design: VLSI in Computers and Processors, pp 434-439 October 1988.
TD	53.	S. Dutt, et al., Probability-Based Approaches to VLSI Circuit Partitioning, IEEE Trans. on Computer-Aided Design of IC's and Systems, Vol. 19, No. 5, May 2000, pp 534-549.
TP	54.	Y. Sekiyama et al., Timing-Oriented Routers for PCB Layout Design of High-Performance Computers, International Conference on Computer Aided Design, pp 332-335, November 1991.

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				Group Art Unit	2825
				Examiner Name	AW
Sheet	1	of	4	Attorney Docket Number	SPLX.P0126

RELATED U.S. PATENT DOCUMENTS						
Examiner Initials	Cite No. ¹	U.S. Patent Document		Date of filing MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Related Application Data
		Number				
TD	1.	2002/0133798		12-06-2000	Steven Teig et al.	Present application is a CIP of 2002/0133798.
TD	2.	2002/0100007		12-06-2000	Steven Teig et al.	Present application is a CIP of 2002/0100007.
TD	3.	2002/0073390 S/N 09/737,210		12-13-2000	Steven Teig et al.	Continuation of parent 2002/0133798
TD	4.	Preliminary Amendment S/N 09/737,210		12-13-2000	Steven Teig et al.	This Preliminary Amendment is submitted as the publication 2002/0073390 does not accurately reflect the claims of S/N 09/737,210.
TD	5.	S/N 09/737,220		12-13-2000	Steven Teig et al.	Continuation of parent 2002/0133798
TD	6.	S/N 09/737,245		12-13-2000	Steven Teig et al.	Continuation of parent 2002/0133798
TD	7.	S/N 09/739,460		12-15-2000	Steven Teig et al.	Continuation of parent 2002/0100007.
TD	8.	2002/0124231 S/N 09/739,580		12-15-2000	Steven Teig et al.	Continuation of parent 2002/0100007.
TD	9.	Preliminary Amendment S/N 09/739,580		12-15-2000	Steven Teig et al.	This Preliminary Amendment is submitted as the publication 2002/0124231 does not accurately reflect the claims of S/N 09/739,580.
TD	10.	S/N 09/739,589		12-15-2000	Steven Teig et al.	Continuation of parent 2002/0100007.
TD	11.	S/N 09/742,171		12-19-2000	Steven Teig et al.	Continuation of parent 2002/0100007.
TD	12.	2003/0121015 S/N 09/745,067		12-19-2000	Steven Teig et al.	Continuation of parent 2002/0100007.
TD	13.	Preliminary Amendment S/N 09/745,067		12-19-2000	Steven Teig et al.	This Preliminary Amendment is submitted as the publication 2003/0121015 does not accurately reflect the claims of S/N 09/745,067.
TD	14.	2002/0069397		01-13-2002	Steven Teig et al.	CIP of 2002/0100007 & 2002/0133798.
TD	15.	2002/0157075		02-20-2002	Steven Teig et al.	CIP of 2002/0100007 & 2002/0133798.

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This collection of information is required by 37CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing the burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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				Filing Date	2/20/02
				First Named Inventor	Steven Teig
				Group Art Unit	2825
				Examiner Name	<i>Do</i>
Sheet	2	of	4	Attorney Docket Number	SPLX.P0126

RELATED U.S. PATENT DOCUMENTS						
TD /	16.	2003/0088841 S/N 10/329,241		12-23-2002	Steven Teig et al.	CIP of 2002/0133798
	17.	Preliminary Amendment S/N 10/329,241		12-23-2002	Steven Teig et al.	This Preliminary Amendment is submitted as the publication 2003/0088841 does not accurately reflect the claims of S/N 10/329,241.
	18.	2003/0018947		12-07-2001	Steven Teig et al.	Application regarding related routing technology
	19.	2002/0147958		10-19-2001	Steven Teig et al.	Application regarding related routing technology
	20.	2003/0079193		12-07-2001	Steven Teig et al.	Application regarding related routing technology
	21.	2003/0063614		01-04-2002	Steven Teig et al.	Application regarding related routing technology
	22.	2003/0064559		01-04-2002	Steven Teig et al.	Application regarding related routing technology
	23.	2003/0063568		01-04-2002	Steven Teig et al.	Application regarding related routing technology
	24.	2003/0101428 S/N 10/040,915		01-05-2002	Steven Teig et al.	Application regarding related routing technology
	25.	Preliminary Amendment S/N 10/040,915		01-05-2002	Steven Teig et al.	This Preliminary Amendment is submitted as the publication 2003/0101428 does not accurately reflect the claims of S/N 10/040,915.
	26.	2002/0166105 S/N 10/040,948		01-05-2002	Steven Teig et al.	Application regarding related routing technology
	27.	Preliminary Amendment S/N 10/040,948		01-05-2002	Steven Teig et al.	This Preliminary Amendment is submitted as the publication 2002/0166105 does not accurately reflect the claims of S/N 10/040,948.
	28.	2003/0043827 S/N 10/040,953		01-05-2002	Steven Teig et al.	Application regarding related routing technology
TD ✓	29.	Preliminary Amendment		01-05-2002	Steven Teig et al.	This Preliminary Amendment is submitted as the publication 2003/0043827 does not

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RELATED U.S. PATENT DOCUMENTS						
<i>TP</i>		S/N 10/040,953				accurately reflect the claims of S/N 10/040,953.
	30.	2003/0023943 S/N 10/040,954		01-05-2002	Steven Teig et al.	Application regarding related routing technology
	31.	Preliminary Amendment S/N 10/040,954		01-05-2002	Steven Teig et al.	This Preliminary Amendment is submitted as the publication 2003/0023943 does not accurately reflect the claims of S/N 10/040,954.
	32.	2003/0066042 S/N 10/040,963		01-05-2002	Steven Teig et al.	Application regarding related routing technology
	33.	Preliminary Amendment S/N 10/040,963		01-05-2002	Steven Teig et al.	This Preliminary Amendment is submitted as the publication 2003/0066042 does not accurately reflect the claims of S/N 10/040,963.
	34.	2002/0174412 S/N 10/041,942		01-07-2002	Steven Teig et al.	Application regarding related routing technology
	35.	Preliminary Amendment S/N 10/041,942		01-07-2002	Steven Teig et al.	This Preliminary Amendment is submitted as the publication 2002/0174412 does not accurately reflect the claims of S/N 10/041,942.
	36.	2003/0088844 S/N 10/041,957		01-07-2002	Steven Teig et al.	Application regarding related routing technology
	37.	Preliminary Amendment S/N 10/041,957		01-07-2002	Steven Teig et al.	This Preliminary Amendment is submitted as the publication 2003/0088844 does not accurately reflect the claims of S/N 10/041,957.
	38.	2002/0199165 S/N 10/046,864		01-13-2002	Steven Teig et al.	Application regarding related routing technology
	39.	Preliminary Amendment S/N 10/046,864		01-13-2002	Steven Teig et al.	This Preliminary Amendment is submitted as the publication 2002/0199165 does not accurately reflect the claims of S/N 10/046,864.
<i>TP</i>	40.	2003/0066043		01-13-2002	Steven Teig et al.	Application regarding related routing technology

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	42.	2003/0056187 S/N 10/047,982		01-14-2002	Steven Teig et al.	Application regarding related routing technology
	43.	Preliminary Amendment S/N 10/047,982		01-14-2002	Steven Teig et al.	This Preliminary Amendment is submitted as the publication 2003/0056187 does not accurately reflect the claims of S/N 10/047,982.
	44.	2003/0066044		01-13-2002	Steven Teig et al.	Application regarding related routing technology
	45.	2003/0066045		01-13-2002	Steven Teig et al.	Application regarding related routing technology
	46.	2003/0088845 S/N 10/047,978		01-13-2002	Steven Teig et al.	Application regarding related routing technology
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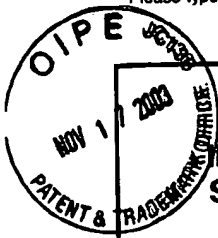
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Substitute for form 1449A/PTO				Applicant Number	10/079,061
INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(use as many sheets as necessary)</i>				Filing Date	2/20/02
				First Named Inventor	Steven Teig
				Group Art Unit	2825
				Examiner Name	<i>JD</i>
Sheet	1	of	7	Attorney Docket Number	SPLX.P0126

U.S. PATENT DOCUMENTS						
Examiner Initials	Cite No. ¹	U.S. Patent Document		Date of Publication MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code ² (if known)			
TD	1.	2001/0009 031	A1	07-19-2001	Nitta et al.	
	2.	2002/0182 844	A1	12-05-2002	Igarashi et al.	
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	19.	5,889,677		03-30-1999	Yasuda et al.	
TD	20.	5,980,093		11-09-1999	Jones et al.	

Examiner Signature <i>Quando</i>	Date Considered	8/25/04
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				Examiner Name	<i>PO</i>
Sheet	2	of	7	Attorney Docket Number	SPLX.P0126

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				First Named Inventor	Steven Teig
				Group Art Unit	2825
				Examiner Name	<i>DO</i>
Sheet	3	of	7	Attorney Docket Number	SPLX.P0126

U.S. PATENT DOCUMENTS					
<i>TD</i>	44.	6,567,967	B2	05-20-2003	Greidinger et al.

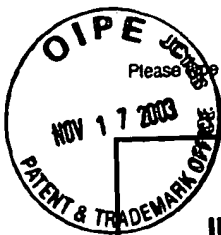
FOREIGN PATENT DOCUMENTS								
Examiner Initials	Cite No.	Foreign Patent Document			Name of Patentee or Applicant of Cited Document	Date of Publication MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T
		Office ³	Number ⁴	Kind Code (if known)				
<i>TD</i>	45.	JP	411296560	A	Matsumoto et al.	10-29-1999	with English translation of Abstract;	
<i>TD</i>	46.	JP	2000-82743	A	Igarashi et al.	03-21-2000	with Japanese Patent Office's English translation of Abstract; and with English translation of the application.	✓
<i>TD</i>	47.	JP	H03-173471	A	Tawada et al.	07-26-1991	with Japanese Patent Office's English translation of Abstract; and with English translation of the application.	✓
<i>TD</i>	48.	JP	H05-243379	A	Masako Kubota	09-21-1993	with Japanese Patent Office's English translation of Abstract; and with English translation of the application.	✓
<i>TD</i>	49.	JP	H05-102305	A	Akihiro Sato	04-23-1993	with Japanese Patent Office's English translation of Abstract; and with English translation of the application.	✓

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				Examiner Name	<i>JD</i>
Sheet	4	of	7	Attorney Docket Number	SPLX.P0126

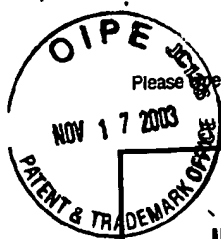
FOREIGN PATENT DOCUMENTS							
TD	50.	JP	H07-86407	A	Shinpei Miura	03-31-1995	with Japanese Patent Office's English translation of Abstract; and with English translation of the application. ✓
TD	51.	JP	H09-162279	A	Masaaki Yoshida	06-20-1997	with Japanese Patent Office's English translation of Abstract; and with English translation of the application. ✓

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			Examiner Name	<i>DO</i>	
Sheet	5	of	7	Attorney Docket Number	SPLX.P0126

FOREIGN PATENT DOCUMENTS

NON PATENT LITERATURE DOCUMENTS

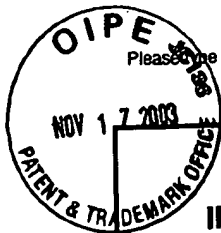
Examiner Initials	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ₆
<i>TD</i>	52.	Ahuja, R. et al., Faster Algorithms for the Shortest Path Problem, Journal of the Association for Computing Machinery, vol. 37, No. 2, April 1990, pp. 213-223.	
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			Examiner Name	SD	
Sheet	6	of	7	Attorney Docket Number	SPLX.P0126

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